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((uplink <and> downlink <and> wavelength)<in>metadata)

[Search](#) Check to search only within this results setDisplay Format: Citation Citation & Abstract**» Key****IEEE JNL** IEEE Journal or Magazine[view selected items](#) [Select All](#) [Deselect All](#)**IEE JNL** IEE Journal or Magazine**1. Adapting a downlink array from uplink measurements**

Hochwald, B.M.; Maretta, T.L.;

[Signal Processing, IEEE Transactions on \[see also Acoustics, Speech, and Signal Processing, IEEE Transactions on\]](#)

Volume 49, Issue 3, March 2001 Page(s):642 - 653

Digital Object Identifier 10.1109/78.905894

[AbstractPlus](#) | [References](#) | Full Text: [PDF\(228 KB\)](#) [IEEE JNL Rights and Permissions](#)**2. Effects of precipitation on 15.3- and 31.65-GHz earth—Space transmission via satellite**

Ippolito, L.J.;

[Proceedings of the IEEE](#)

Volume 59, Issue 2, Feb. 1971 Page(s):189 - 205

[AbstractPlus](#) | Full Text: [PDF\(2223 KB\)](#) [IEEE JNL Rights and Permissions](#)**3. A novel millimeter-wave-band radio-over-fiber system with dense wavelength multiplexing bus architecture**

Xiupu Zhang; Baozhu Liu; Jianping Yao; Ke Wu; Kashyap, R.;

[Microwave Theory and Techniques, IEEE Transactions on](#)

Volume 54, Issue 2, Part 2, Feb. 2006 Page(s):929 - 937

Digital Object Identifier 10.1109/TMTT.2005.863045

[AbstractPlus](#) | Full Text: [PDF\(416 KB\)](#) [IEEE JNL Rights and Permissions](#)**4. Remote downconversion with wavelength reuse for the radio/fiber uplink**

Kaszubowska, A.; Hu, L.; Barry, L.P.;

[Photonics Technology Letters, IEEE](#)

Volume 18, Issue 4, Feb. 15, 2006 Page(s):562 - 564

Digital Object Identifier 10.1109/LPT.2005.863995

[AbstractPlus](#) | Full Text: [PDF\(128 KB\)](#) [IEEE JNL Rights and Permissions](#)**5. Extending optical transmission distance in fiber wireless links using passive conjunction with optimized modulation**

Attygalle, M.; Lim, C.; Nirmalathas, A.;

[Lightwave Technology, Journal of](#)

Volume 24, Issue 4, April 2006 Page(s):1703 - 1709
Digital Object Identifier 10.1109/JLT.2006.871042

[AbstractPlus](#) | Full Text: [PDF\(320 KB\)](#) IEEE JNL
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- 6. OCDMA over WDM PON-solution path to gigabit-symmetric FTTH**
Kitayama, K.; Xu Wang; Naoya Wada;
[Lightwave Technology, Journal of](#)
Volume 24, Issue 4, April 2006 Page(s):1654 - 1662
Digital Object Identifier 10.1109/JLT.2006.871030
[AbstractPlus](#) | Full Text: [PDF\(872 KB\)](#) IEEE JNL
[Rights and Permissions](#)

- 7. EA-transceiver for full-duplex WDM ring networks**
Stohr, A.; Heinzelmann, R.; Kitayama, K.; Jager, D.;
[Signals, Systems, and Electronics, 1998. ISSSE 98. 1998 URSI International Symposium on](#)
29 Sept.-2 Oct. 1998 Page(s):384 - 387
Digital Object Identifier 10.1109/ISSSE.1998.738102
[AbstractPlus](#) | Full Text: [PDF\(288 KB\)](#) IEEE CNF
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- 8. Long-term statistics of laser beam propagation in an optical ground-to-ground satellite communications link**
Toyoshima, M.; Yamakawa, S.; Yamawaki, T.; Arai, K.; Garcia-Talavera, M.R.;
Sodnik, Z.; Demelenne, B.;
[Antennas and Propagation, IEEE Transactions on](#)
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Digital Object Identifier 10.1109/TAP.2004.841329
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- 9. The Autonomous Data Optical Relay Experiment: first two way laser communication between an aircraft and submarine**
Puschell, J.J.; Giannaris, R.J.; Stotts, L.;
[Telesystems Conference, 1992. NTC-92., National](#)
19-20 May 1992 Page(s):14/27 - 14/30
Digital Object Identifier 10.1109/NTC.1992.267865
[AbstractPlus](#) | Full Text: [PDF\(308 KB\)](#) IEEE CNF
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- 10. A Full-duplex WDM Millimeter-Wave-Band Radio-on-Fiber System Using a Supercontinuum Light Source**
Toda, H.; Nakasyotani, T.; Kuri, T.; Kitayama, K.;
[Microwave Photonics, 2005. MWP 2005. International Topical Meeting on](#)
12-14 Oct. 2005 Page(s):111 - 114
[AbstractPlus](#) | Full Text: [PDF\(1192 KB\)](#) IEEE CNF
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- 11. Self-amplified transceivers for local-access star networks**
Feuer, M.D.; Feldman, R.D.; Zyskind, J.L.; Wood, T.H.; Sulhoff, J.; Lion, K.-Y.;
[Photonics Technology Letters, IEEE](#)
Volume 7, Issue 9, Sept. 1995 Page(s):1063 - 1065
Digital Object Identifier 10.1109/68.414704
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- 12. Transmission of 37.6-GHz QPSK Wireless Data Over 12.8-km Fiber With Frequency-Division Multiplexed Millimeter-Wave Local Oscillator Delivery Using a Bi-Directional SOA in a System With 2.2-km CWDM Fiber Ring Architecture**

Ismail, T.; Liu, C.P.; Mitchell, J.E.; Seeds, A.J.; Qian, X.; Wonfor, A.; Penty, R.
Photonics Technology Letters, IEEE
Volume 17, Issue 9, Sept. 2005 Page(s):1989 - 1991
Digital Object Identifier 10.1109/LPT.2005.853529
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- 13. **Simultaneous electrooptical upconversion, remote oscillator generation, transmission of multiple optical WDM channels for a 60-GHz high-capacity link**
Kojucharow, K.; Sauer, M.; Kaluzni, H.; Sommer, D.; Poegel, F.; Nowak, W.; F. D.;
Microwave Theory and Techniques, IEEE Transactions on
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- 14. **Radio-on-fiber techniques using two-mode injection-locked lasers for broad-band millimeter-wave communications**
Hu, W.W.; Inagaki, K.; Ohira, T.;
Microwave and Millimeter Wave Technology, 2002. Proceedings. ICMMT 2002 International Conference on
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[Rights and Permissions](#)

- 15. **SOA-EAM frequency up/down-converters for 60-GHz bi-directional radio-over-fiber links**
Jun-Hyuk Seo; Chang-Soon Choi; Young-Shik Kang; Yong-Duck Chung; Jeha Choi;
Microwave Theory and Techniques, IEEE Transactions on
Volume 54, Issue 2, Part 2, Feb. 2006 Page(s):959 - 966
Digital Object Identifier 10.1109/TMTT.2005.863028
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- 16. **A physical model for wireless channels to provide insights for long range communications**
Hallen, H.; Duel-Hallen, A.; Shengquan Hu; Tung-Shen Yang; Ming Lei;
MILCOM 2002. Proceedings
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Digital Object Identifier 10.1109/MILCOM.2002.1180517
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EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1164	455/63.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L2	144	455/63.4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L3	504	455/428.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L4	1302	455/562.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L5	1164	455/63.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L6	144	455/63.4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L7	504	455/428.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L8	1302	455/562.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L9	1048	(L5 OR L6 OR L7 OR L8) AND beam	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01

EAST Search History

L10	526	(L5 OR L6 OR L7 OR L8) AND beam AND (downlink OR (down ADJ link))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L11	505	(L5 OR L6 OR L7 OR L8) AND beam AND (downlink OR (down ADJ link)) AND antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L12	359	(L5 OR L6 OR L7 OR L8) AND beam AND (downlink OR (down ADJ link)) AND (antenna NEAR5 array)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L13	315	(L5 OR L6 OR L7 OR L8) AND beam AND (downlink OR (down ADJ link)) AND (antenna NEAR5 array) AND (base ADJ station)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L14	170	(L5 OR L6 OR L7 OR L8) AND (beam WITH (downlink OR (down ADJ link))) AND (antenna NEAR5 array) AND (base ADJ station)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L15	61	(L5 OR L6 OR L7 OR L8) AND (beam WITH (downlink OR (down ADJ link))) AND (antenna NEAR5 array) AND (base ADJ station) AND null	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L16	1904	arcsin	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L17	55	arcsin WITH wavelength	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L18	134	arcsin SAME wavelength	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L19	90	arcsin WITH lambda	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01

EAST Search History

L20	23	arcsin WITH lambda WITH (theta OR phi)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L21	30	(bad ADJ null) OR (pseudo ADJ null)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L22	149	(false OR fake OR unwanted) ADJ null	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L23	38	(good ADJ null)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L24	1864	downlink ADJ3 frequency	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L25	1053	(downlink ADJ3 frequency) WITH (uplink ADJ3 frequency)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L26	5457	null NEAR3 (mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L27	208	null NEAR3 (mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) NEAR3 (zero OR "0")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L28	3660	(mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) ADJ3 null	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L29	70	(mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) ADJ3 null ADJ3 (zero OR "0")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01

EAST Search History

L30	128	(mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) ADJ5 null ADJ5 (zero OR "0")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L31	4	(mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) ADJ5 null ADJ5 ((zero OR "0") ADJ degrees)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L32	128	(mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4 OR redirect) ADJ5 null ADJ5 (zero OR "0")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L33	356704	antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L34	45	antenna AND (null WITH DOA)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L35	1827	antenna AND (null WITH direction)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L36	713	(antenna ADJ array) AND (null WITH direction)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L37	264	(antenna ADJ array) AND (null WITH direction WITH (mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L38	14334	antenna ADJ array	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L39	1248	(antenna ADJ array) AND ((antenna OR element) ADJ (spacing OR distance OR separation))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01

EAST Search History

L40	406	(antenna ADJ array) AND (((antenna OR element) ADJ (spacing OR distance OR separation)) WITH wavelength)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L41	122	(antenna ADJ array) AND (((antenna OR element) ADJ (spacing OR distance OR separation)) WITH wavelength WITH half)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L42	24	(antenna ADJ array) AND (((antenna OR element) ADJ (spacing OR distance OR separation)) WITH wavelength WITH quarter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L43	55	(weight ADJ generator) AND (antenna ADJ array)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L44	60	sum ADJ5 (uplink AND downlink)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L45	1	sum WITH ((uplink AND downlink) NEAR5 wavelength)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L46	1164	455/63.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L47	144	455/63.4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L48	504	455/428.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L49	1302	455/562.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01

EAST Search History

L50	1164	455/63.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L51	144	455/63.4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L52	504	455/428.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L53	1302	455/562.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L54	1048	(L50 OR L51 OR L52 OR L53) AND beam	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L55	526	(L50 OR L51 OR L52 OR L53) AND beam AND (downlink OR (down ADJ link))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L56	505	(L50 OR L51 OR L52 OR L53) AND beam AND (downlink OR (down ADJ link)) AND antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L57	359	(L50 OR L51 OR L52 OR L53) AND beam AND (downlink OR (down ADJ link)) AND (antenna NEAR5 array)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L58	315	(L50 OR L51 OR L52 OR L53) AND beam AND (downlink OR (down ADJ link)) AND (antenna NEAR5 array) AND (base ADJ station)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L59	170	(L50 OR L51 OR L52 OR L53) AND (beam WITH (downlink OR (down ADJ link))) AND (antenna NEAR5 array) AND (base ADJ station)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01

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L60	61	(L50 OR L51 OR L52 OR L53) AND (beam WITH (downlink OR (down ADJ link))) AND (antenna NEAR5 array) AND (base ADJ station) AND null	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L61	1904	arcsin	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L62	55	arcsin WITH wavelength	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L63	134	arcsin SAME wavelength	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L64	90	arcsin WITH lambda	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L65	23	arcsin WITH lambda WITH (theta OR phi)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L66	30	(bad ADJ null) OR (pseudo ADJ null)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L67	149	(false OR fake OR unwanted) ADJ null	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L68	38	(good ADJ null)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L69	1864	downlink ADJ3 frequency	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01

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L70	1053	(downlink ADJ3 frequency) WITH (uplink ADJ3 frequency)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L71	5457	null NEAR3 (mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L72	208	null NEAR3 (mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) NEAR3 (zero OR "0")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L73	3660	(mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) ADJ3 null	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L74	70	(mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) ADJ3 null ADJ3 (zero OR "0")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L75	128	(mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) ADJ5 null ADJ5 (zero OR "0")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L76	4	(mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) ADJ5 null ADJ5 ((zero OR "0") ADJ degrees)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L77	128	(mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4 OR redirect) ADJ5 null ADJ5 (zero OR "0")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L78	356704	antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L79	45	antenna AND (null WITH DOA)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01

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L80	1827	antenna AND (null WITH direction)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L81	713	(antenna ADJ array) AND (null WITH direction)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L82	264	(antenna ADJ array) AND (null WITH direction WITH (mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L83	14334	antenna ADJ array	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L84	1248	(antenna ADJ array) AND ((antenna OR element) ADJ (spacing OR distance OR separation))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L85	406	(antenna ADJ array) AND (((antenna OR element) ADJ (spacing OR distance OR separation)) WITH wavelength)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L86	122	(antenna ADJ array) AND (((antenna OR element) ADJ (spacing OR distance OR separation)) WITH wavelength WITH half)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L87	24	(antenna ADJ array) AND (((antenna OR element) ADJ (spacing OR distance OR separation)) WITH wavelength WITH quarter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L88	55	(weight ADJ generator) AND (antenna ADJ array)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L89	60	sum ADJ5 (uplink AND downlink)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01

EAST Search History

L90	1	sum WITH ((uplink AND downlink) NEAR5 wavelength)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L91	1	"6041237".PN.	USPAT; USOCR	OR	ON	2006/07/10 14:01
L92	1	sum WITH (uplink ADJ wavelength) WITH (downlink ADJ wavelength)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L93	1	sum WITH ((uplink AND downlink) NEAR3 wavelength)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L94	1	averag\$4 WITH ((uplink AND downlink) NEAR5 wavelength)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L95	1	"6041237".PN.	USPAT; USOCR	OR	ON	2006/07/10 14:01
L96	1	sum WITH (uplink ADJ wavelength) WITH (downlink ADJ wavelength)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L97	1	sum WITH ((uplink AND downlink) NEAR3 wavelength)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L98	1	averag\$4 WITH ((uplink AND downlink) NEAR5 wavelength)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L99	36	(L5 OR L6 OR L7 OR L8) AND (beam WITH (downlink OR (down ADJ link))) AND (antenna NEAR5 array) AND (base ADJ station) AND null AND weight	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L100	4	arcsin WITH wavelength WITH antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01

EAST Search History

L101	3	arcsin SAME wavelength SAME (antenna WITH (spacing OR separation OR distance))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L102	10	arcsin SAME wavelength SAME antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L103	16	arcsin WITH lambda WITH theta	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L104	7	L20 NOT L103	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L105	5	bad ADJ null	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L106	25	L21 NOT L105	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L107	20	((false OR fake OR unwanted) ADJ null) AND antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L108	18	(good ADJ null) AND antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L109	32	(downlink ADJ3 frequency) WITH (uplink ADJ3 frequency) WITH ratio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L110	11	(downlink ADJ3 frequency) WITH (uplink ADJ3 frequency) WITH ratio WITH phase	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01

EAST Search History

L111	6	null NEAR3 (mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) NEAR3 ((zero OR "0") ADJ degrees)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L112	29	(null NEAR3 (mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) NEAR3 (zero OR "0")) AND antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L113	2	(mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) ADJ3 null ADJ3 ((zero OR "0") ADJ degrees)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L114	2	L31 NOT L113	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L115	8	((mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) ADJ5 null ADJ5 ((zero OR "0")) WITH (direction OR DOA))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L116	43	(mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4 OR redirect) ADJ5 null ADJ5 ("0")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L117	3	((mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4 OR redirect) ADJ5 null ADJ5 ("0")) AND antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L118	8	(antenna ADJ array) AND (null WITH direction WITH (mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) WITH (zero OR "0"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L119	7	(antenna ADJ array) AND (((antenna OR element) ADJ (spacing OR distance OR separation)) WITH wavelength WITH half WITH less WITH equal)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L120	2	downlink ADJ weight ADJ generator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01

EAST Search History

L121	11	((weight ADJ generator) WITH downlink) AND (antenna ADJ array)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L122	36	(L50 OR L51 OR L52 OR L53) AND (beam WITH (downlink OR (down ADJ link))) AND (antenna NEAR5 array) AND (base ADJ station) AND null AND weight	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L123	4	arcsin WITH wavelength WITH antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L124	3	arcsin SAME wavelength SAME (antenna WITH (spacing OR separation OR distance))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L125	10	arcsin SAME wavelength SAME antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L126	16	arcsin WITH lambda WITH theta	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L127	7	L65 NOT L126	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L128	5	bad ADJ null	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L129	25	L66 NOT L128	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L130	20	((false OR fake OR unwanted) ADJ null) AND antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01

EAST Search History

L131	18	(good ADJ null) AND antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L132	32	(downlink ADJ3 frequency) WITH (uplink ADJ3 frequency) WITH ratio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L133	11	(downlink ADJ3 frequency) WITH (uplink ADJ3 frequency) WITH ratio WITH phase	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L134	6	null NEAR3 (mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) NEAR3 ((zero OR "0") ADJ degrees)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L135	29	(null NEAR3 (mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) NEAR3 (zero OR "0")) AND antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L136	2	(mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) ADJ3 null ADJ3 ((zero OR "0") ADJ degrees)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L137	2	L76 NOT L136	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L138	8	((mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) ADJ5 null ADJ5 (zero OR "0")) WITH (direction OR DOA)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L139	43	(mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4 OR redirect) ADJ5 null ADJ5 ("0")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L140	3	((mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4 OR redirect) ADJ5 null ADJ5 ("0")) AND antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01

EAST Search History

L141	8	(antenna ADJ array) AND (null WITH direction WITH (mov\$4 OR reset\$4 OR steer\$4 OR shift\$4 OR plac\$4) WITH (zero OR "0"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L142	7	(antenna ADJ array) AND (((antenna OR element) ADJ (spacing OR distance OR separation)) WITH wavelength WITH half WITH less WITH equal)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L143	2	downlink ADJ weight ADJ generator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L144	11	((weight ADJ generator) WITH downlink) AND (antenna ADJ array)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L145	1	09/922442	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L146	379506	((antenna or array or element) near5 (spac\$3 or separation or distance or delta))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L147	41	(null near3 wrap\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L148	100	(wavelength near3 uplink)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L149	100	(wavelength near3 downlink)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L150	2	L146 with L148 with L149	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01

EAST Search History

L151	1644	(342/368.ccls. or 342/372.ccls. or 342/373.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L152	282	(342/368.ccls. or 342/372.ccls. or 342/373.ccls.) and null and beam	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L153	11	(342/368.ccls. or 342/372.ccls. or 342/373.ccls.) and null and beam and (fdd or (frequency adj division adj duplex))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:01
L154	4	downlink with (greater or higher or more or exceed) with wavelength with (spac\$3 or separation or delta)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:51
L155	2	uplink with (less\$2 or lower or below) with wavelength with (spac\$3 or separation or delta)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 14:53
L157	4	(uplink adj null) with (downlink adj null)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 15:43
L158	26	(pseudonull or (pseudo adj null))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 15:56
L159	165	(pseudonull or (pseudo adj null)) or (false adj null))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/10 15:57